Amendment to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

 (Previously presented) A trap for use with energy conversion devices comprising:

a trapping system comprising a filter element and a trap element, said filter element including a particulate filter disposed in a first chamber of said trapping system, said particulate filter including a washcoat disposed on a filter material;

a reforming system; and

wherein said reforming system is fluidly coupled to said trapping system, with said trapping system positioned after said reforming system.

- 2. (Original) The trap of Claim 1, further comprising a temperature sensor in electrical communication with said trapping system.
- 3. (Original) The trap of Claim 1, further comprising a pressure differential sensor is coupled to said trapping system.
- 4. (Original) The trap of Claim 1, further comprising a reformate control valve is coupled to said trapping system.

150741.1 Page 2 of 9

- 5. (Original) The trap of Claim 4, wherein said reformate control valve is coupled to said trapping system.
- 6. (Original) The trap of Claim 4, wherein said reformate control valve is coupled to a waste energy recovery burner device.
- 7. (Original) The trap of Claim 1, further comprising a solid oxide fuel cell coupled to a reformate control valve, wherein said reformate control valve is coupled to said trapping system.
- 8. (Original) The trap of Claim 1, further comprising a waste energy recovery burner device coupled to a reformate control valve, wherein said reformate control valve is coupled to said trapping system.
 - 9. (Cancelled).
- 10. (Previously presented) The trap of Claim 1, wherein said particulate filter further comprises a material having a sufficient porosity to permit passage of reformate, and filter and remove a particulate matter from a reformate.
- 11. (Previously presented) The trap of Claim 1, wherein said particulate filter further comprises a filter material selected from the group

150741.1 Page 3 of 9

consisting of ceramic, metallic, cermet, carbides, silicides, nitrides, composites, and combinations comprising at least one of the foregoing materials.

- 12. (Previously presented) The trap of Claim 1, wherein said particulate filter further comprises a catalyst disposed on a filter material.
- 13. (Original) The trap of Claim 12, wherein said catalyst further comprises a catalyst material selected from the group consisting of platinum, palladium, rhodium, nickel, iron, cobalt, molybdenum, tungsten, vanadium, niobium, tantalum, their oxides and sulfides, and combinations comprising at least one of the foregoing catalyst materials.
 - 14. (Cancelled).
- 15. (Previously presented) The trap of Claim 1, wherein said washcoat further comprises a washcoat material selected from the group consisting of aluminum oxide, silicon oxide, zirconium oxide, titanium oxide, cerium oxide, and combinations comprising at least one of the foregoing washcoat materials.
- 16. (Original) The trap of Claim 1, wherein said trap element further comprises a sulfur adsorber material selected from the group consisting of nickel, iron, zinc, copper, molybdenum, manganese, vanadium, niobium, cobalt,

Response to Office Action dated August 9, 2005

their alloys and oxides, and combinations comprising at least one of the foregoing sulfur adsorber materials.

- 17. (Original) The trap of Claim 1, wherein said trap element further comprises a sulfur adsorber material selected from the group consisting of carbonates zeolitic matter, non-zeolitic matter, and combinations comprising at least one of the foregoing sulfur adsorber materials, wherein said non-zeolitic matter is selected from the group consisting of phosphates, molybdates, alumina containing equivalents, and combinations comprising at least one of the foregoing non-zeolitic matter.
- 18. (Original) The trap of Claim 1, wherein said trap element further comprises a sulfur adsorber material selected from the group consisting of sodalites, scapolites, cancrinite structure type alumino-silicates, and combinations comprising at least one of the foregoing sulfur adsorber materials.
- 19. (Original) The trap of Claim 1, wherein said trapping system further comprises a first chamber and a second chamber, wherein said first chamber further comprises said filter element, wherein said second chamber further comprises said trap element.

Claims 20-37 (Cancelled).

Page 5 of 9 150741.1

PATENT Serial No. 09/781,687 (89190.034105/DP-302902) Response to Office Action dated August 9, 2005

38. (Previously presented) The trap of Claim 1, wherein said trap element further comprises a sulfur adsorber material.

39. (Previously presented) The trap of Claim 38, wherein said sulfur adsorber material is selected from the group consisting of nickel, iron, zinc, copper, molybdenum, manganese, vanadium, niobium, cobalt, their alloys and oxides, and combinations comprising at least one of the foregoing sulfur adsorber materials.

Claims 40-48 (Cancelled).

150741.1 Page 6 of 9